

We claim:

- 1 1. A method of cell switching by system equipment of a wireless communication system, the  
2 method comprising the step of:  
3       determining, by the system equipment, whether received information is coded  
4 information indicating a mobile's intent to switch from a serving system equipment to a  
5 particular target system equipment identified by the received information that contains  
6 channel measurement update information for the serving system equipment.
- 1 2. The method of claim 1 where the information is received over a reverse link signaling  
2 channel of a cell in which the system equipment is located.
- 1 3. The method of claim 1 further comprising the steps of :  
2       confirming that the received information is coded information; and  
3       transmitting, upon confirmation of the coded information, an acknowledgement signal  
4 to the mobile when the system equipment is currently serving the mobile, or  
5       when the system equipment is a target system equipment, serving the mobile in  
6 accordance with a protocol being followed by the communication system thus allowing the  
7 mobile, the serving system equipment and the target system equipment to complete the cell  
8 switching.
- 1 4. The method of claim 1 where the coded information is a signal to which a spreading code  
2 is applied which signal contains formatted information having channel measurement  
3 adjustment information for the serving system equipment where either the spreading code or  
4 at least a portion of the formatted information identifies the particular target system  
5 equipment.
- 1 5. The method of claim 4 where the spreading code is a null code.

1 6. The method of claim 5 where the null code is a cover code defined by a 1x-EVDV CDMA  
2 system and where the formatted information is a 20 millisecond framed divided into 16  
3 substantially equal time slots one of which contains C/I information of a forward channel of  
4 the serving system equipment, three of which contain information identifying the target  
5 system equipment and twelve of which contain channel measurement adjustment information  
6 for the serving system equipment.

1 7. The method of claim 4 where the spreading code is a cover code.

1 8. The method of claim 7 where the cover code identifies the target system equipment and  
2 the formatted information is a 20 millisecond frame divided into 16 substantially equal time  
3 slots 15 of which contain channel measurement adjustment information for the serving  
4 system equipment and one of which contains C/I information for the serving system  
5 equipment.

1 9. The method of claim 1 where the coded information is a signal containing formatted  
2 information that identify the particular target system equipment and said formatted  
3 information also contains channel measurement adjustment information for the serving  
4 system equipment.

1 10. The method of claim 9 where the formatted information is a 20 millisecond framed  
2 divided into 16 substantially equal slots three of which contain information identifying the  
3 target system equipment, one of which contains C/I information for the serving system  
4 equipment and 12 of which contain channel measurement adjustment information for the  
5 serving system equipment.

1 11. A method of cell switching by mobile equipment of a wireless communication system,  
2 the method comprising the step of:  
3 transmitting, by the mobile, coded information that indicate the mobile's intent to  
4 switch from its serving system equipment to a target system equipment identified by the  
5 coded information that contains channel measurement adjustment information for the serving  
6 system equipment.

7

7

1 12. The method of claim 11 where the information is transmitted over a reverse link  
2 signaling channel of a cell in which the system equipment is located.

1 13. The method of claim 11 further comprising the steps of:  
2 waiting for an acknowledgement signal from the serving system equipment; and  
3 completing the cell switching with the serving system equipment and the target system  
4 equipment.

1 14. The method of claim 11 where the coded information is a signal to which a spreading  
2 code is applied which signal contains formatted information having channel measurement  
3 adjustment information for the serving system equipment where either the spreading code or  
4 at least a portion of the formatted information identifies the particular target system  
5 equipment.

1 15. The method of claim 14 where the spreading code is a null code.

1 16. The method of claim 15 where the null code is a cover code defined by a 1x-EVDV  
2 CDMA system and where the formatted information is a 20 millisecond frame divided into  
3 16 substantially equal time slots one of which contains C/I information of a forward channel  
4 of the serving system equipment, three of which contain information identifying the target  
5 system equipment and twelve of which contain channel measurement adjustment information  
6 for the serving system equipment.

1 17. The method of claim 14 where the spreading code is a cover code.

1 18. The method of claim 17 where the cover code identifies the target system equipment and  
2 the formatted information is a 20 millisecond frame divided into 16 substantially equal time  
3 slots 15 of which contain channel measurement adjustment information for the serving  
4 system equipment and one of which contains C/I information for the serving system  
5 equipment.  
6

10091674-035532

6

1 19. The method of claim 11 where the coded information is a signal containing formatted  
2 information that identify the particular target system equipment and said formatted  
3 information also contains channel measurement adjustment information for the serving  
4 system equipment.

1 20. The method of claim 9 where the formatted information is a 20 millisecond framed  
2 divided into 16 substantially equal slots three of which contain information identifying the  
3 target system equipment, one of which contains C/I information for the serving system  
4 equipment and 12 of which contain channel measurement adjustment information for the  
5 serving system equipment.

10091674.030502